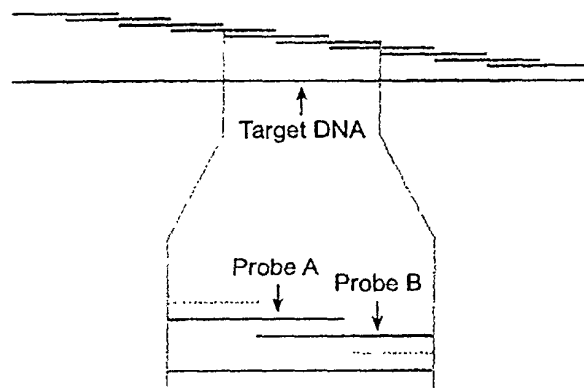


Figure 1. Scanning and Sequencing by Complete Overlapping Probes

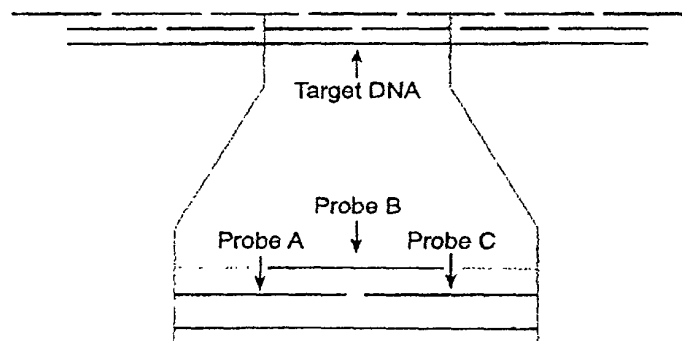


	$\Delta T_{mA}$ ( $^{\circ}\text{C}$ )	$\Delta T_{mB}$ ( $^{\circ}\text{C}$ )	$^{*}\Delta\Delta T_m$ ( $^{\circ}\text{C}$ )
	0.3	2.8	-2.5
	3.9	3.7	0.2
	3.6	0.7	2.9

\*\*  $\Delta$  = Mismatch

\*  $\Delta\Delta T_m = \Delta T_{mA} - \Delta T_{mB}$

Figure 2. Scanning and Sequencing by Overlapping Probes with Single Nucleotide Spacing



	$\Delta T_{mA}$ ( $^{\circ}\text{C}$ )	$\Delta T_{mB}$ ( $^{\circ}\text{C}$ )	$\Delta T_{mC}$ ( $^{\circ}\text{C}$ )	$^{***}\Delta\Delta T_m$ ( $^{\circ}\text{C}$ )
	0	8.0	0	8.0
	1.0	3.0	0	-2.0
	0	3.0	1.0	2.0

\*\*  $\Delta$  = Mismatch

\*\*\* If  $\Delta T_{mA}=0$  and  $\Delta T_{mC}=0$ , then  $\Delta\Delta T_m = \Delta T_{mB}$  only

Figure 3. Effect on  $T_m$  of Different Mismatches in the Center of a 15mer Duplex

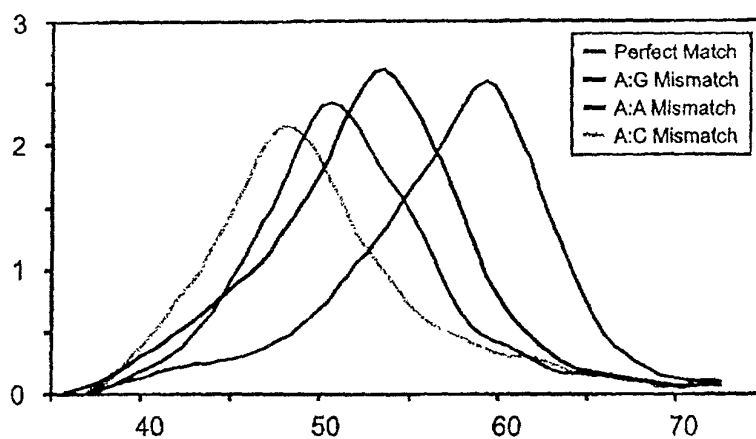


Figure 4. Effect of G:T Mismatch Position using 20mer Probes

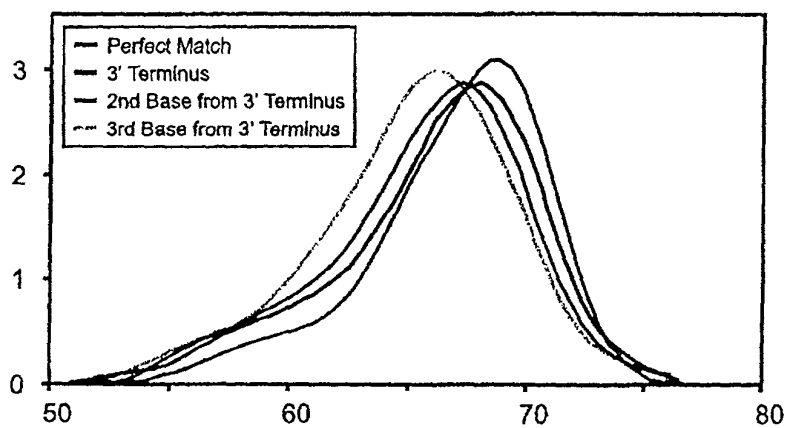


Figure 5.  $T_m$  Shift vs. Position of G:T Mismatch under a 20mer Probe

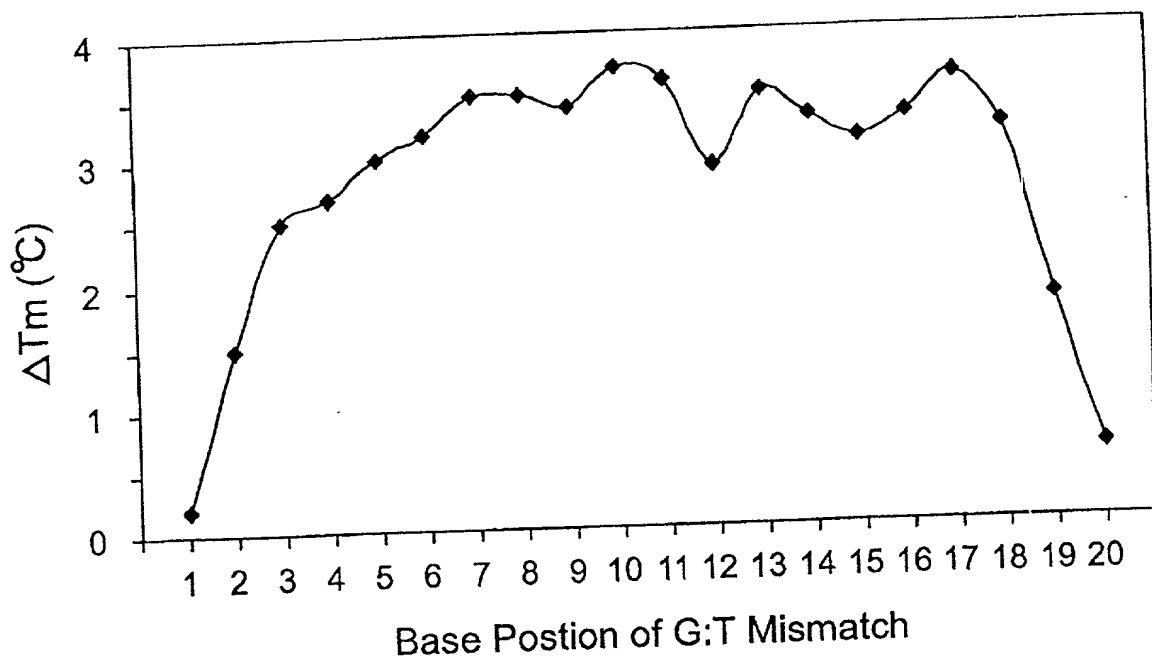


Figure 6.  $\Delta\Delta T_m$  of G:T Mismatches at Different Positions using the Overlapping Probe Embodiment

